

| Run 1 | | Wednesday, April 24, 2019 | | | |
|--|-------|---------------------------|---------|--------|--------|
| Chamber Number | | units | 3832 | 3833 | 4701 |
| Run ID | | | 2093 | 2085 | 164 |
| Chamber Volume | V | cubic feet | 430.8 | 430.8 | 430.8 |
| Standard Molar Volume | SV | cubic feet | 385.32 | 385.32 | 385.32 |
| Mol. Wt. EO | MWEO | # / #-mole | 44.05 | 44.05 | 44.05 |
| Mol. Wt.H2O | MWH2O | # / #-mole | 18 | 18 | 18 |
| Mol. Wt. N2 | MWN2 | # / #-mole | 28 | 28 | 28 |
| Standard Temperature | Tstd | degree R | 528 | 528 | 528 |
| Standard Barometric Pressure | Pstd | inch Hg | 29.92 | 29.92 | 29.92 |
| Barometric Pressure | Pbar | inch Hg | 29.3 | 29.3 | 29.3 |
| Conversion factor millibars to inches Hg | | | 0.0295 | 0.0295 | 0.0295 |
| Conversion factor kg to pounds | | | 2.2046 | 2.2046 | 2.2046 |
| Chamber pressure after nitrogen wash | | mbar | 199 | 199 | 199 |
| Chamber pressure after nitrogen wash | | inch Hg | 5.87 | 5.87 | 5.87 |
| Chamber temperature after nitrogen wash | | degree C | 33.1 | 35.7 | 33.8 |
| Chamber temperature after nitrogen wash | | degree R | 551.6 | 556.3 | 552.8 |
| Volume nitrogen in chamber | | cubic feet | 90.17 | 90.93 | 90.38 |
| Pound moles nitrogen in chamber | | | 0.25 | 0.25 | 0.25 |
| Mass nitrogen in chamber | | pounds | 6.99 | 7.11 | 7.02 |
| Chamber pressure after humidification | P | mbar | 229 | 225 | 225 |
| Chamber pressure after humidification | P | inch Hg | 6.76 | 6.64 | 6.64 |
| Pressure increase due to humidification | P | inch Hg | 0.89 | 0.77 | 0.77 |
| Chamber temperature after humidification | | degree C | 41.9 | 39.7 | 39.5 |
| Chamber temperature after humidification | | degree R | 567.4 | 563.5 | 563.1 |
| Volume H2O in chamber | | cubic feet | 13.98 | 12.03 | 12.03 |
| Pound Moles of H2O at chamber pressure | | | 0.04 | 0.03 | 0.03 |
| Mass H2O at chamber pressure | | pounds | 0.65 | 0.56 | 0.56 |
| Mass EtO charged to chamber | | kg | 30 | 30 | 32 |
| Mass EtO charged to chamber | Wc | pounds | 13.6 | 13.7 | 14.6 |
| Chamber pressure after EtO injection | | mbar | 517 | 518 | 517 |
| Chamber pressure after EtO injection | | inch Hg | 15.25 | 15.28 | 15.25 |
| Chamber Temperature after EtO injection | | degree C | 42.5 | 41.9 | 41.5 |
| Chamber Temperature after EtO injection | | degree R | 568.5 | 567.4 | 566.7 |
| Chamber temperature after nitrogen blanket | | degree R | 568.5 | 567.4 | 566.7 |
| Total Moles N2 in chamber | | | 0.25 | 0.25 | 0.25 |
| Total mass nitrogen in chamber | | pounds | 6.99 | 7.11 | 7.02 |
| Total volume gas in chamber | | std. cubic feet | 203.95 | 204.74 | 204.60 |
| Pound Moles EtO injected | | | 0.31 | 0.31 | 0.33 |
| Weight % N2 | WN2 | % | 32.90% | 33.26% | 31.65% |
| Weight % water | WH2O | % | 3.08% | 2.63% | 2.53% |
| Weight % EtO | WEO | % | 64.02% | 64.11% | 65.81% |
| EtO mole fraction | %EOv | % | 51.92% | 52.17% | 54.03% |
| H2O mole fraction | %H2Ov | % | 6.10% | 5.24% | 5.09% |
| N2 mole fraction | %N2v | % | 43.55% | 43.95% | 42.15% |
| Chamber pressure after evacuation | | mbar | 68 | 68 | 67 |
| Chamber pressure after evacuation | | inch Hg | 2.006 | 2.006 | 1.9765 |
| Chamber temperature after 1st evacuation | | degree C | 37.2 | 37.4 | 36.7 |
| Chamber temperature after 1st evacuation | | degree R | 559.0 | 559.3 | 558.1 |
| Total volume gas in chamber | | std. cubic feet | 27.28 | 27.27 | 26.93 |
| Percent chamber gas evacuated | | % | 86.62% | 86.68% | 86.84% |
| Residual Mass EtO remaining in chamber | Wr | pounds | 1.82 | 1.82 | 1.92 |
| Mass EtO at Inlet to scrubber | Wi | pounds | 11.78 | 11.88 | 12.68 |
| Concentration EtO in Lesni Outlet | C | ppm | 1.2 | | |
| Volume gas exiting scrubber | V | dscf | 15052.0 | | |
| Mass EtO exiting scrubber | Wb | pounds | 0.00199 | | |
| Control Device Efficiency | % Eff | % | 99.992% | | |

| Run 2 | | Wednesday, April 24, 2019 | | | |
|--|-------|---------------------------|---------|--------|--------|
| Chamber Number | | units | 3382 | 3383 | 4701 |
| Run ID | | | 2094 | 2086 | 165 |
| Chamber Volume | V | cubic feet | 99.23 | 99.23 | 99.23 |
| Standard Molar Volume | SV | cubic feet | 385.32 | 385.32 | 385.32 |
| Mol. Wt. EO | MWEO | # / #-mole | 44.05 | 44.05 | 44.05 |
| Mol. Wt.H2O | MWH2O | # / #-mole | 18 | 18 | 18 |
| Mol. Wt. N2 | MWN2 | # / #-mole | 28 | 28 | 28 |
| Standard Temperature | Tstd | degree R | 528 | 528 | 528 |
| Standard Barometric Pressure | Pstd | inch Hg | 29.92 | 29.92 | 29.92 |
| Barometric Pressure | Pbar | inch Hg | 29.3 | 29.3 | 29.3 |
| Conversion factor millibars to inches Hg | | | 0.0295 | 0.0295 | 0.0295 |
| Conversion factor kg to pounds | | | 2.2046 | 2.2046 | 2.2046 |
| Chamber pressure after nitrogen wash | | mbar | 198 | 199 | 199 |
| Chamber pressure after nitrogen wash | | inch Hg | 5.84 | 5.87 | 5.87 |
| Chamber temperature after nitrogen wash | | degree C | 34.7 | 35.4 | 33.4 |
| Chamber temperature after nitrogen wash | | degree R | 554.5 | 555.7 | 552.1 |
| Volume nitrogen in chamber | | cubic feet | 20.77 | 20.93 | 20.79 |
| Pound moles nitrogen in chamber | | | 0.06 | 0.06 | 0.06 |
| Mass nitrogen in chamber | | pounds | 1.62 | 1.63 | 1.61 |
| Chamber pressure after humidification | P | mbar | 224 | 225 | 225 |
| Chamber pressure after humidification | P | inch Hg | 6.61 | 6.64 | 6.64 |
| Pressure increase due to humidification | P | inch Hg | 0.77 | 0.77 | 0.77 |
| Chamber temperature after humidification | | degree C | 39.9 | 39.4 | 39.4 |
| Chamber temperature after humidification | | degree R | 563.8 | 562.9 | 562.9 |
| Volume H2O in chamber | | cubic feet | 2.77 | 2.77 | 2.77 |
| Pound Moles of H2O at chamber pressure | | | 0.01 | 0.01 | 0.01 |
| Mass H2O at chamber pressure | | pounds | 0.13 | 0.13 | 0.13 |
| Mass EtO charged to chamber | | kg | 29 | 30 | 29 |
| Mass EtO charged to chamber | Wc | pounds | 13.2 | 13.6 | 13.2 |
| Chamber pressure after EtO injection | | mbar | 516 | 518 | 516 |
| Chamber pressure after EtO injection | | inch Hg | 15.22 | 15.28 | 15.22 |
| Chamber Temperature after EtO injection | | degree C | 42.3 | 42.0 | 41.4 |
| Chamber Temperature after EtO injection | | degree R | 568.1 | 567.6 | 566.5 |
| Chamber temperature after nitrogen blanket | | degree R | 568.1 | 567.6 | 566.5 |
| Total Moles N2 in chamber | | | 0.06 | 0.06 | 0.06 |
| Total mass nitrogen in chamber | | pounds | 1.62 | 1.63 | 1.61 |
| Total volume gas in chamber | | std. cubic feet | 46.92 | 47.14 | 47.05 |
| Pound Moles EtO injected | | | 0.30 | 0.31 | 0.30 |
| Weight % N2 | WN2 | % | 10.83% | 10.64% | 10.82% |
| Weight % water | WH2O | % | 0.87% | 0.84% | 0.87% |
| Weight % EtO | WEO | % | 88.30% | 88.52% | 88.32% |
| EtO mole fraction | %EOv | % | 82.17% | 82.49% | 82.19% |
| H2O mole fraction | %H2Ov | % | 1.97% | 1.92% | 1.98% |
| N2 mole fraction | %N2v | % | 16.04% | 15.77% | 16.02% |
| Chamber pressure after evacuation | | mbar | 68 | 67 | 67 |
| Chamber pressure after evacuation | | inch Hg | 2.006 | 1.9765 | 1.9765 |
| Chamber temperature after 1st evacuation | | degree C | 37.2 | 37.6 | 36.5 |
| Chamber temperature after 1st evacuation | | degree R | 559.0 | 559.7 | 557.7 |
| Total volume gas in chamber | | std. cubic feet | 6.28 | 6.18 | 6.21 |
| Percent chamber gas evacuated | | % | 86.61% | 86.88% | 86.81% |
| Residual Mass EtO remaining in chamber | Wr | pounds | 1.77 | 1.78 | 1.74 |
| Mass EtO at Inlet to scrubber | Wi | pounds | 11.43 | 11.82 | 11.44 |
| Concentration EtO in Lesni Outlet | C | ppm | 0.9 | | |
| Volume gas exiting scrubber | V | dscf | 16045.4 | | |
| Mass EtO exiting scrubber | Wb | pounds | 0.00165 | | |
| Control Device Efficiency | % Eff | % | 99.993% | | |

| Run 3 | | Thursday, April 25, 2019 | | | |
|--|-------|--------------------------|---------|--------|--------|
| Chamber Number | | units | 3832 | 3833 | 4701 |
| Run ID | | | 2095 | 2087 | 166 |
| Chamber Volume | V | cubic feet | 99.23 | 99.23 | 99.23 |
| Standard Molar Volume | SV | cubic feet | 385.32 | 385.32 | 385.32 |
| Mol. Wt. EO | MWEO | # / #-mole | 44.05 | 44.05 | 44.05 |
| Mol. Wt.H2O | MWH2O | # / #-mole | 18 | 18 | 18 |
| Mol. Wt. N2 | MWN2 | # / #-mole | 28 | 28 | 28 |
| Standard Temperature | Tstd | degree R | 528 | 528 | 528 |
| Standard Barometric Pressure | Pstd | inch Hg | 29.92 | 29.92 | 29.92 |
| Barometric Pressure | Pbar | inch Hg | 29.2 | 29.2 | 29.2 |
| Conversion factor millibars to inches Hg | | | 0.0295 | 0.0295 | 0.0295 |
| Conversion factor kg to pounds | | | 2.2046 | 2.2046 | 2.2046 |
| Chamber pressure after nitrogen wash | | mbar | 199 | 199 | 199 |
| Chamber pressure after nitrogen wash | | inch Hg | 5.87 | 5.87 | 5.87 |
| Chamber temperature after nitrogen wash | | degree C | 35.2 | 35.8 | 33.3 |
| Chamber temperature after nitrogen wash | | degree R | 555.4 | 556.4 | 551.9 |
| Volume nitrogen in chamber | | cubic feet | 20.98 | 21.02 | 20.85 |
| Pound moles nitrogen in chamber | | | 0.06 | 0.06 | 0.06 |
| Mass nitrogen in chamber | | pounds | 1.64 | 1.65 | 1.62 |
| Chamber pressure after humidification | P | mbar | 225 | 225 | 225 |
| Chamber pressure after humidification | P | inch Hg | 6.64 | 6.64 | 6.64 |
| Pressure increase due to humidification | P | inch Hg | 0.77 | 0.77 | 0.77 |
| Chamber temperature after humidification | | degree C | 40.1 | 39.6 | 39.3 |
| Chamber temperature after humidification | | degree R | 564.2 | 563.3 | 562.7 |
| Volume H2O in chamber | | cubic feet | 2.79 | 2.78 | 2.78 |
| Pound Moles of H2O at chamber pressure | | | 0.01 | 0.01 | 0.01 |
| Mass H2O at chamber pressure | | pounds | 0.13 | 0.13 | 0.13 |
| Mass EtO charged to chamber | | kg | 29 | 29 | 30 |
| Mass EtO charged to chamber | Wc | pounds | 13.2 | 13.0 | 13.6 |
| Chamber pressure after EtO injection | | mbar | 518 | 515 | 517 |
| Chamber pressure after EtO injection | | inch Hg | 15.28 | 15.19 | 15.25 |
| Chamber Temperature after EtO injection | | degree C | 42.5 | 42.0 | 41.6 |
| Chamber Temperature after EtO injection | | degree R | 568.5 | 567.6 | 566.9 |
| Chamber temperature after nitrogen blanket | | degree R | 568.5 | 567.6 | 566.9 |
| Total Moles N2 in chamber | | | 0.06 | 0.06 | 0.06 |
| Total mass nitrogen in chamber | | pounds | 1.64 | 1.65 | 1.62 |
| Total volume gas in chamber | | std. cubic feet | 47.07 | 46.87 | 47.11 |
| Pound Moles EtO injected | | | 0.30 | 0.29 | 0.31 |
| Weight % N2 | WN2 | % | 11.00% | 11.18% | 10.59% |
| Weight % water | WH2O | % | 0.87% | 0.88% | 0.85% |
| Weight % EtO | WEO | % | 88.13% | 87.94% | 88.56% |
| EtO mole fraction | %EOv | % | 81.94% | 81.66% | 82.54% |
| H2O mole fraction | %H2Ov | % | 1.98% | 2.00% | 1.93% |
| N2 mole fraction | %N2v | % | 16.27% | 16.53% | 15.71% |
| Chamber pressure after evacuation | | mbar | 68 | 68 | 67 |
| Chamber pressure after evacuation | | inch Hg | 2.006 | 2.006 | 1.9765 |
| Chamber temperature after 1st evacuation | | degree C | 37.0 | 37.7 | 36.4 |
| Chamber temperature after 1st evacuation | | degree R | 558.6 | 559.9 | 557.5 |
| Total volume gas in chamber | | std. cubic feet | 6.29 | 6.27 | 6.21 |
| Percent chamber gas evacuated | | % | 86.64% | 86.61% | 86.82% |
| Residual Mass EtO remaining in chamber | Wr | pounds | 1.76 | 1.74 | 1.79 |
| Mass EtO at Inlet to scrubber | Wi | pounds | 11.41 | 11.24 | 11.78 |
| Concentration EtO in Lesni Outlet | C | ppm | 0.9 | | |
| Volume gas exiting scrubber | V | dscf | 16971.6 | | |
| Mass EtO exiting scrubber | Wb | pounds | 0.00165 | | |
| Control Device Efficiency | % Eff | % | 99.993% | | |

| | |
|----------------------------|--------------|
| Client Name: | Alcon |
| Jobsite: | Lesage, WV |
| Emission Source(s): | Lesni CatOx |
| Sampling Location: | Outlet Stack |

ISOKINETIC SAMPLE CALCULATIONS

| | |
|---|-----------|
| Date: | 4/24/2019 |
| Run No.: | M18R1 |
| Run Times: | 0700-0800 |
| Input Data: | |
| Total Metered Volume (Cubic Feet) [Vm]: | 34.985 |
| Total Water Caught (grams) [Wc]: | 10.2 |
| Static Pressure | -0.01 |
| Barometric Pressure ("Hg) [Pb]: | 29.30 |
| Carbon Dioxide (%) [CO2]: | 0.0 |
| Oxygen (%) [O2]: | 20.9 |
| Methane (%) [CH4] | 0.0 |
| Nozzle Diameter (inches) [Dn]: | 0.000 |
| Pitot Tube Factor [Cp]: | 0.840 |
| Meter Correction Factor [Y]: | 0.995 |
| Stack Cross-Section Area (Square Feet) [CSA]: | 0.785 |
| Total Sample Time (minutes) [min]: | 60 |
| Gas Volume Correction Temperature (F) [Tc] | 68 |
| Output Data: | |
| Metered Volume (dry cubic feet @stp)[Vms]: | 35.116 |
| Water Volume (cubic feet @ stp) [Vws]: | 0.48 |
| Moisture (%) [Bws]: | 1.35 |
| Dry Molecular Weight (lb/lb-mol) [MWd]: | 28.842 |
| Wet Molecular Weight (lb/lb-mol) [MWw]: | 28.696 |
| Absolute Stack Pressure ("Hg) [Pa]: | 29.299 |
| Gas Velocities (feet/second) [Vsa] | 28.497 |
| Stack Flow Rate (cubic feet/ minute) | |
| Actual [ACFM]: | 1342 |
| @ stp [SCFM]: | 1090 |
| Dry @ stp [DSCFM]: | 1075 |
| Sample Isokinetics (%) [I]: | #DIV/0! |

| Traverse Point | Delta-P ("H ₂ O) | Delta-H ("H ₂ O) | Temperatures °F | | | Square Root of Delta-P |
|------------------|-----------------------------|-----------------------------|------------------|-------------------|--------------------|------------------------|
| | | | Meter In | Meter Out | Stack | |
| 1 | 0.21 | 1.00 | 50 | 50 | 176.78 | 0.456 |
| 2 | | | 50 | 50 | | |
| 3 | | | 52 | 52 | | |
| 4 | | | 55 | 55 | | |
| 5 | | | 57 | 57 | | |
| 6 | | | 59 | 59 | | |
| 7 | | | | | | |
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| 25 | | | | | | |
| Averages: | 0.208 | [H] 1.000 | [Tm] 53.8 | [Ts] 176.8 | [dP] 0.4560 | |

| | |
|---|-----------|
| Date: | 4/24/2019 |
| Run No.: | M18R2 |
| Run Times: | 2200-2300 |
| Input Data: | |
| Total Metered Volume (Cubic Feet) [Vm]: | 35.972 |
| Total Water Caught (grams) [Wc]: | 16.8 |
| Stack Static Pressure ("H ₂ O) [Ps]: | 0.01 |
| Barometric Pressure ("Hg) [Pb]: | 29.25 |
| Carbon Dioxide (%) [CO2]: | 0.0 |
| Oxygen (%) [O2]: | 20.9 |
| Methane (%) [CH4] | 0.0 |
| Nozzle Diameter (inches) [Dn]: | 0.000 |
| Pitot Tube Factor [Cp]: | 0.840 |
| Meter Correction Factor [Y]: | 0.995 |
| Stack Cross-Section Area (Square Feet) [CSA]: | 0.785 |
| Total Sample Time (minutes) [min]: | 60 |
| Gas Volume Correction Temperature (F) [Tc] | 68 |
| Output Data: | |
| Metered Volume (dry cubic feet @stp)[Vms]: | 35.358 |
| Water Volume (cubic feet @ stp) [Vws]: | 0.79 |
| Moisture (%) [Bws]: | 2.19 |
| Dry Molecular Weight (lb/lb-mol) [MWd]: | 28.842 |
| Wet Molecular Weight (lb/lb-mol) [MWw]: | 28.605 |
| Absolute Stack Pressure ("Hg) [Pa]: | 29.251 |
| Gas Velocities (feet/second) [Vsa] | 28.571 |
| Stack Flow Rate (cubic feet/ minute) | |
| Actual [ACFM]: | 1346 |
| @ stp [SCFM]: | 1094 |
| Dry @ stp [DSCFM]: | 1070 |
| Sample Isokinetics (%) [I]: | #DIV/0! |

| Traverse Point | Delta-P ("H ₂ O) | Delta-H ("H ₂ O) | Temperatures °F | | | Square Root of Delta-P |
|------------------|-----------------------------|-----------------------------|------------------|-------------------|--------------------|------------------------|
| | | | Meter In | Meter Out | Stack | |
| 1 | 0.21 | 1.00 | 62 | 62 | 175 | 0.457 |
| 2 | | | 63 | 63 | | |
| 3 | | | 63 | 63 | | |
| 4 | | | 64 | 64 | | |
| 5 | | | 65 | 65 | | |
| 6 | | | 66 | 66 | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
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| 24 | | | | | | |
| 25 | | | | | | |
| Averages: | 0.209 | [H] 1.000 | [Tm] 63.8 | [Ts] 175.2 | [dP] 0.4566 | |

| | |
|---|-----------|
| Date: | 4/25/2019 |
| Run No.: | M18R3 |
| Run Times: | 1300-1400 |
| Input Data: | |
| Total Metered Volume (Cubic Feet) [Vm]: | 38.040 |
| Total Water Caught (grams) [Wc]: | 15.0 |
| Stack Static Pressure ("H ₂ O) [Ps]: | 0.01 |
| Barometric Pressure ("Hg) [Pb]: | 29.20 |
| Carbon Dioxide (%) [CO2]: | 0.0 |
| Oxygen (%) [O2]: | 20.9 |
| Methane (%) [CH4] | 0.0 |
| Nozzle Diameter (inches) [Dn]: | 0.000 |
| Pitot Tube Factor [Cp]: | 0.840 |
| Meter Correction Factor [Y]: | 0.995 |
| Stack Cross-Section Area (Square Feet) [CSA]: | 0.785 |
| Total Sample Time (minutes) [min]: | 60 |
| Gas Volume Correction Temperature (F) [Tc] | 68 |
| Output Data: | |
| Metered Volume (dry cubic feet @stp)[Vms]: | 36.087 |
| Water Volume (cubic feet @ stp) [Vws]: | 0.71 |
| Moisture (%) [Bws]: | 1.92 |
| Dry Molecular Weight (lb/lb-mol) [MWd]: | 28.842 |
| Wet Molecular Weight (lb/lb-mol) [MWw]: | 28.634 |
| Absolute Stack Pressure ("Hg) [Pa]: | 29.201 |
| Gas Velocities (feet/second) [Vsa] | 28.407 |
| Stack Flow Rate (cubic feet/ minute) | |
| Actual [ACFM]: | 1338 |
| @ stp [SCFM]: | 1081 |
| Dry @ stp [DSCFM]: | 1061 |
| Sample Isokinetics (%) [I]: | #DIV/0! |

| Traverse Point | Delta-P ("H ₂ O) | Delta-H ("H ₂ O) | Temperatures °F | | | Square Root of Delta-P |
|------------------|-----------------------------|-----------------------------|------------------|-------------------|--------------------|------------------------|
| | | | Meter In | Meter Out | Stack | |
| 1 | 0.21 | 1.00 | 82 | 82 | 178 | 0.453 |
| 2 | | | 82 | 82 | | |
| 3 | | | 81 | 81 | | |
| 4 | | | 81 | 81 | | |
| 5 | | | 82 | 82 | | |
| 6 | | | 83 | 83 | | |
| 7 | | | | | | |
| 8 | | | | | | |
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| 24 | | | | | | |
| 25 | | | | | | |
| Averages: | 0.205 | [H] 1.000 | [Tm] 81.8 | [Ts] 177.5 | [dP] 0.4530 | |

Stp = standard conditions = 29.92" Hg & [Tc] degress F